BOSS®
AUDIO SYSTEMS

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CE NOTICE

This (these) equipment(s) is (are) in conformity with the provisions of EMC Directives 89/336/EEC, 92/31/EEC and 93/68/EEC.

USER'S MANUAL

AVA-1210

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PARAMETRIC EQUALIZER WITH SUBWOOFER OUTPUT

Introduction

Congratulations on your purchase of a BOSS Audio Systems Parametric Equalizer. This product has been designed and built to deliver excellent sound quality and long lasting high performance. We are sure you'll enjoy listening to your favorite music with this BOSS component in your car audio system. For best results please consult a professional car stereo installer for application advice or trouble-shooting. To guarantee top performance we recommend using the BOSS Link installation accessories such as RCA interconnects, power cables, and speaker wire. Thank you for choosing BOSS Audio Systems products for your mobile audio system.

Specifications

Frequency Bands	Front Channel: 125Hz, 500Hz, 3.5kHz, 12kHz Rear Channel: 50 Hz, 600Hz, 6.3kHz
Boost / Cut	+/-18dB
Signal-To-Noise Ratio	110dB Ref 1V Input
Frequency Response	10Hz-15KHz, +/-1dB
Maximum Output Voltage	8V Rms
Total Harmonic Distortion	0.05%
Input Sensitivity	150mV
Headroom	20dB
Input Impedance	10K Ohms
Stereo Separation	82dB /1KHz
Operating Voltage	11-15V Negative Ground
Output Impedance	50K Ohms
Size (HxWxD)	1 " x 7 " x 4-9/16 " 27.5mm X 178mm X 115mm

★ Due to out continuing efforts towards products improvement, the above specifications are subject to change without notice.

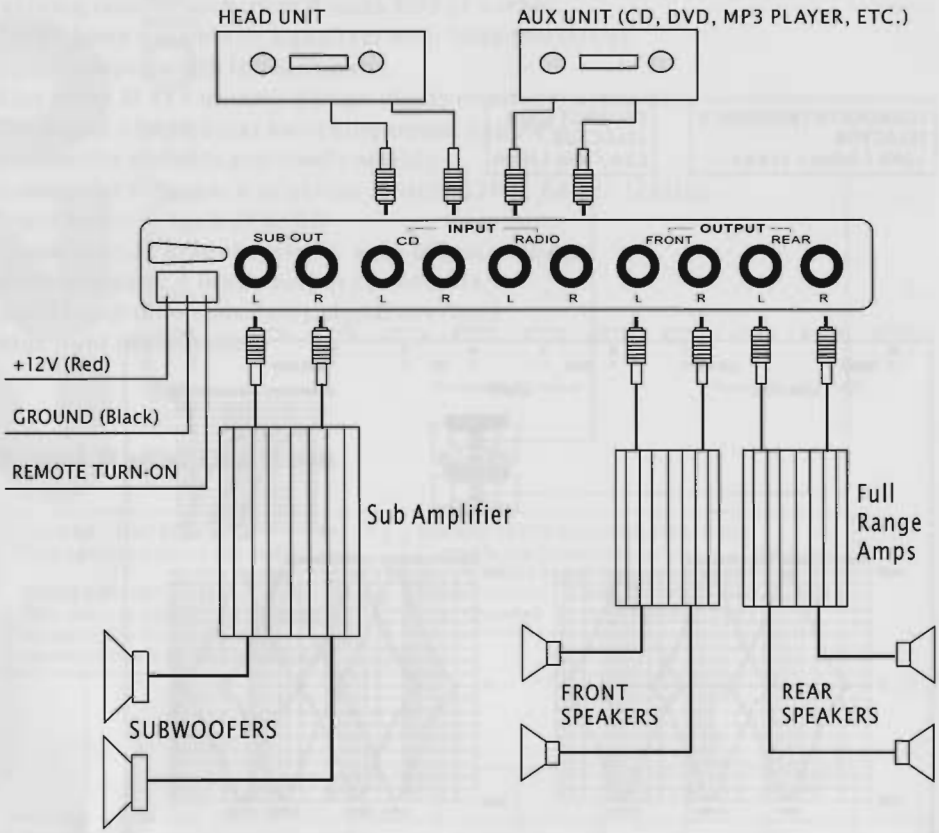
Equalizer Background

There are basically three types of equalizer : graphic, parametric and a hybrid of these two, often referred to as paragraphic. Additionally, there are passive equalizers, which have no gain, active gain preamps, which have a gain stage usually with a volume control, and booster equalizers.

As in state-of-the-art home audio systems the optimum system requires a dedicated preamp with enormous gain to drive the various power amplifiers. These amplifiers do not have adjustable sensitivity and require high output preamplifiers to drive them to maximum levels.

This unit is the first production preamplifier to incorporate a specific bandwidth parametric equalizer with shelving control. With 18dB boost or cut on its four bands, the AVA-1210 can compensate for acoustic anomalies unique to the automotive environment. This unit easily becomes the Mission Control Center remove the extra space of any high end automotive sound system.

Electrical Installation



NOTES:

Set your source volume at a position between 6 o'clock and 9 o'clock and leave it at this setting.

Always use the AVA-1210 volume control as a master main volume control. It has better electronics, higher S/N ratio and is more linear than any source unit volume control available.

If engine noise is audible, check the ground connection on all units in the audio system.

Features

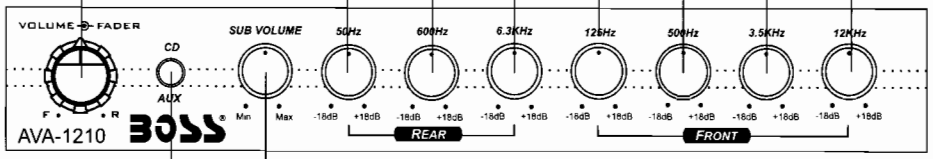
Volume control with up to 8 volts RMS of output
Seven band parametric equalizer with 18dB Boost/Cut
Specific bandwidth for each band
Low noise BI-FET op-amp design yields minimum distortion
On-board 30V bi-polar switching power supply
Subwoofer outputs and level controls
Subwoofer frequency selection switch (32Hz/ 64Hz/ 128Hz)
Input selector for AUX or CD
Universal half-DIN chassis for ease of installation
Gold-plated RCA input output connectors
20dB headroom eliminates signal overload
Blue light illumination

Front Panel Controls

VOLUME CONTROL
This control adjusts the output level.

FADER CONTROL
This control adjusts the volume between the front and rear speakers in a 4 speaker system.

PARAMETRIC EQUALIZER CONTROLS
Controls the frequency response of the boost or cut, in the seven frequency bands:
Front Channel: 125Hz, 500Hz, 3.5kHz, 12kHz
Rear Channel: 50 Hz, 600Hz, 6.3kHz



INPUT SELECTOR SWITCH
This switch selects the AUX or CD input.

SUBWOOFER OUTPUT VOLUME
This control adjusts output level of subwoofer RCA jack.

Top Cover Controls

SUBWOOFER FREQUENCY SELECTOR
32Hz / 64Hz / 128Hz

CD INPUT GAIN SELECTOR
Low / Mid / High